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Job No.: CTCE/BBMP/W.No.08/VN/CEMENT/2013-14

Date: 03.03.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Venu,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of drains and construction of cement concrete roads at Kodigehalli near Rajmurali Theatre in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm.

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Job No.: CTCE/BBMP/W.No.08/VN/SAND/2013-14 : 03.03.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Venu,** Contractor, Bangalore.

Name of Work : Improvements of drains and construction of cement concrete roads at Kodigehalli near Rajmurali Theatre in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Date of Testing : 03.03.2014

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	65	6.50	6.50	93.5	90-100
2.36	182	18.20	24.70	75.3	75-100
1.18	192	19.20	43.90	56.1	55-90
600 Micron	175	17.50	61.40	38.6	35-59
300 Micron	198	19.80	81.20	18.8	8-30
150 Micron	152	15.20	96.40	3.6	0-10

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Job No.: CTCE/BBMP/W.No.08/VN/AGG/2013-14 : 03.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Venu,** Contractor, Bangalore.

Name of Work : Improvements of drains and construction of cement concrete roads at Kodigehalli near Rajmurali Theatre in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Date of Testing : 03.03.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	350	3.50	3.50	96.50	95-100
20	5250	52.50	56.00	44.00	30-70
10	2850	28.50	84.50	15.50	10-35
4.75	1250	12.50	97.00	3.00	0-5

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Job No.: CTCE/BBMP/W.No.08/VN/CUBE/2013-14

09.04.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Venu,** Contractor, Bangalore.

Name of the work : Improvements of drains and construction of cement concrete roads at Kodigehalli near Rajmurali Theatre in Ward No.08, Kodigehalli Sub Division, BBMP, Bangalore.

Sample ID : Pavement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2014	09.04.2014	8.139	478.3	21.26
2	12.03.2014	09.04.2014	8.258	493.6	21.94
3	12.03.2014	09.04.2014	8.346	513.2	22.81

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2014	09.04.2014	8.193	475.5	21.13
2	12.03.2014	09.04.2014	8.265	502.3	22.32
3	12.03.2014	09.04.2014	8.356	516.3	22.95

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2014	09.04.2014	8.258	489.3	21.75
2	12.03.2014	09.04.2014	8.330	510.2	22.68
3	12.03.2014	09.04.2014	8.478	526.4	23.40

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.03.2014	09.04.2014	8.112	480.3	21.35
2	12.03.2014	09.04.2014	8.235	505.6	22.47
3	12.03.2014	09.04.2014	8.349	520.1	23.12

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Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2014	10.04.2014	8.158	482.2	21.43
2	13.03.2014	10.04.2014	8.269	510.3	22.68
3	13.03.2014	10.04.2014	8.344	520.1	23.12

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2014	10.04.2014	8.125	475.6	21.14
2	13.03.2014	10.04.2014	8.298	502.3	22.32
3	13.03.2014	10.04.2014	8.344	515.6	22.92

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1	13.03.2014	10.04.2014	8.119	476.9	21.20
2	13.03.2014	10.04.2014	8.239	506.3	22.50
3	13.03.2014	10.04.2014	8.378	518.6	23.05

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